1		DIRECT TESTIMONY
2		OF
3		E. ELIZABETH BEST
4		ON BEHALF OF
5		SOUTH CAROLINA ELECTRIC & GAS COMPANY
6		DOCKET NO. 2008-196-E
7		
8	Q.	PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
9	A.	My name is E. Elizabeth Best and my business address is 1426 Mair
10		Street, Columbia, South Carolina.
11		
12	Q.	WHERE ARE YOU EMPLOYED AND WHAT IS YOUR POSITION
13		THERE?
14	A.	I am employed by SCANA Services, Inc., a subsidiary of SCANA
15		Corporation, in Columbia, South Carolina and I am the Director of Financia
16		Planning and Investor Relations.
17		
18	Q.	HOW LONG HAVE YOU BEEN EMPLOYED WITH SCANA
19		SERVICES?
20	A.	I started working there in January 2002, so I have been employed with
21		SCANA Services for over six years.
22		

### Q. WHAT WAS YOUR EMPLOYMENT HISTORY PRIOR TO JOINING SCANA SERVICES?

I was employed for nine years by Union Switch & Signal, Inc., a railway signaling and automation company headquartered in Pittsburgh, Pennsylvania, with responsibilities expanding from a divisional financial planner to the Director of Financial Reporting for a then \$350 million publicly traded company on the NASDAQ. Prior to that, I was employed in the public accounting firm Coopers & Lybrand, now PriceWaterhouseCoopers, working on a variety of audit clients including utilities, health care, manufacturing, non-profit, and governmental entities.

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### 12 Q. WHAT EDUCATIONAL DEGREES AND PROFESSIONAL 13 CERTIFICATIONS DO YOU HOLD?

I am a graduate of Clemson University with a Bachelor of Science

Degree in Financial Management. I also hold a Master of Business

Administration from the University of South Carolina. Since 1991, I have been a Certified Public Accountant in South Carolina.

#### Q. WHAT ARE YOUR DUTIES WITH SCANA SERVICES?

A. I am responsible for financial planning matters, which involve development of the Company's financial plans, preparation of valuations for existing and potential businesses, and support in the development and

execution of financial strategies for all of SCANA's subsidiaries. I also am responsible for investor relations issues, which involve developing, verifying, and communicating actual and projected financial and operational information about the Company to various segments of the financial community and to current and potential investors. I also am responsible for assuring that all information released by the Company is consistent, accurate, and timely and meets all applicable SEC, NYSE, and Company disclosure guidelines.

Q.

ARE YOU FAMILIAR WITH THE COMBINED APPLICATION FOR CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY, PUBLIC CONVENIENCE AND NECESSITY, AND FOR A BASE LOAD REVIEW ORDER PREPARED BY SCE&G WITH RESPECT TO PUBLIC SERVICE COMMISSION DOCKET NUMBER 2008-196-E?

14 A. Yes.

A.

### Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY TODAY IN REGARD TO THAT APPLICATION?

The purpose of my testimony is to explain the financial and cost projections related to the construction program, including contingency amounts and inflation indices included in those projections. I also will be testifying in regard to the calculation of SCE&G's weighted average cost of capital. I also will explain in my testimony the calculation of SCE&G's revenue

1	requirements based upon the anticipated capital expenditures, as well as the
2	expected In-Service Expenses arising during the 12 months following the
3	anticipated start-up dates of Units 2 and 3. As part of my testimony, I am
4	sponsoring the following Exhibits to the Public Service Commission of South
5	Carolina ("Commission"):
6	Exhibit F (Public) (Exhibit No (EEB-1-P)), Anticipated
7	Components of Capital Costs and Schedule, which is also Exhibit
8	F, Public Version, to the Combined Application;
9	Exhibit F (Confidential) (Exhibit No (EEB-1-C)), Anticipated
10	Components of Capital Costs and Schedule, which is also Exhibit
11	F, Confidential Version, to the Combined Application;
12	Exhibit I (Public) (Exhibit No (EEB-2-P)), Inflation Indices and
13	Contingency Factors, which is also Exhibit I, Public Version, to
14	the Combined Application;
15	Exhibit I (Confidential) (Exhibit No (EEB-2-C)), Inflation
16	Indices and Contingency Factors, which is also Exhibit I,
17	Confidential Version, to the Combined Application;
18	Exhibit L (Exhibit No (EEB-3)), Cost of Debt and Capitalization
19	Ratios, which is also Exhibit L to the Combined Application;
20	Exhibit M (Exhibit No (EEB-4)), Year-by-Year Revenue
21	Requirements and Projected Rate Impact of Investment, which is
22	also Exhibit M to the Combined Application; and

1		<b>Exhibit O</b> ( <b>Exhibit No.</b> ( <b>EEB-5</b> )), In-Service Expenses, which is
2		also Exhibit O to the Combined Application.
3		In addition, I will be presenting a document that is not included in the
4		Combined Application but that summarizes SCE&G's analysis with respect to
5		certain tax credits to which SCE&G may be entitled after it places Units 2 and
6		3 into service. This document is attached as <b>Exhibit No.</b> ( <b>EEB-6</b> ).
7		
8	Q.	ARE YOU FAMILIAR WITH EXHIBITS F, I, L, M, AND O TO THE
9		COMBINED APPLICATION AND THE INFORMATION AND DATA
10		USED TO PREPARE THOSE EXHIBITS?
11	A.	Yes.
12		
13	Q.	DOES THE INFORMATION CONTAINED IN THESE EXHIBITS
14		REFLECT THE REASONABLE ESTIMATE OF THE IDENTIFIED
15		COSTS TO CONSTRUCT AND PLACE INTO SERVICE UNITS 2 AND
16		3?
17	A.	Yes. These estimates are based upon reasonable and accurate
18		information and projections available at the time the Combined Application
19		was filed and are appropriate information upon which to base an Order in this
20		proceeding. There will, however, be variations from year to year based upon
21		the timing of expenditures and other factors.

- Q. PLEASE EXPLAIN THE ANTICIPATED COMPONENTS OF
  CAPITAL COSTS AND THE SCHEDULE FOR INCURRING THOSE
  COSTS AS SET FORTH IN EXHIBIT F (PUBLIC).
- A. This information is set forth in Chart A of **Exhibit F (Public)**, Page 3 of

  3. This schedule sets forth the anticipated components of capital cost and the

  forecasted schedule for incurring these costs as used by SCE&G in projecting

  the cash flows, construction work-in-progress ("CWIP") balances, and other

  financial matters related to SCE&G's share of the cost for constructing two

  Westinghouse AP1000 units as V.C. Summer Nuclear Station Units 2 and 3.

#### 11 Q. IS SCE&G CONTRACTUALLY OBLIGATED TO MAINTAIN 12 CERTAIN INFORMATION CONFIDENTIAL?

13 A. Yes. SCE&G seeks to maintain as confidential certain information 14 related to the Engineering, Procurement and Construction Contract ("EPC 15 Contract") because Westinghouse Electric Co., LLC ("Westinghouse") and 16 Stone & Webster, Inc. ("Stone & Webster") (collectively, "Westinghouse/Stone & Webster") consider this information to be proprietary 17 18 information in the nature of a trade secret. Thus, Westinghouse/Stone & 19 Webster has taken steps to maintain this information as confidential and 20 believes that the public release of this information could injure it in 21 negotiations for the sale of other units. Westinghouse/Stone & Webster also 22 believes that, if released to the public, this data would allow competitors to

calculate specific prices being charged under the EPC Contract, both in aggregate and for particular items or categories of items supplied. Consequently, SCE&G requested and the Commission issued Order No. 2008-467, Order Granting Confidentiality and a Protective Order, approving SCE&G's request for a declaration of confidentiality relating to certain information contained in the confidential versions of Exhibit F, Chart A, in the introduction to Exhibit I, and Exhibit I, Chart A that are attached to the Combined Application. The public versions of these Exhibits are incorporated into my testimony as **Exhibit F** (**Public**) and **Exhibit I** (**Public**). In addition, the confidential versions of these Exhibits are incorporated into my testimony as **Exhibit F** (**Confidential**) and **Exhibit I** (**Confidential**).

Q.

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## WHAT STEPS HAS SCE&G TAKEN TO MAINTAIN THIS INFORMATION AS CONFIDENTIAL WHILE PROVIDING USEFUL INFORMATION TO THE PUBLIC?

SCE&G filed Chart A to Exhibit F of the Combined Application, which is included in my testimony as Chart A to Exhibit F (Public), Page 3 of 3, and as Chart A to Exhibit F (Confidential), Page 3 of 3, in both a public and a confidential version. Although both versions show the total anticipated costs of the units, the public version omits the details of EPC Costs, Owners' Costs, and contingencies and escalations. The differences between the public and confidential versions are explained more fully in Part 2 of Exhibit F (Public),

Page 1 of 3 through 2 of 3, and in Part 2 of Exhibit F (Confidential), Page 1 of 3 through 2 of 3. Additionally, SCE&G filed Exhibit I to the Combined Application, which relates to the calculation of the inflation indices and contingency factors, in both a public and confidential version. The public version of Exhibit I is attached to my testimony as Exhibit I (Public) and the confidential version attached as Exhibit I (Confidential). As is the case with respect to Exhibit F (Public), Exhibit I (Public) omits certain details under the EPC Contract.

## Q. WILL SCE&G MAKE AVAILABLE THE CONFIDENTIAL VERSIONS OF EXHIBIT F, CHART A AND EXHIBIT I TO PARTIES WHO SIGN

#### AN APPROPRIATE CONFIDENTIALITY AGREEMENT?

13 A. Yes.

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#### 15 Q. HOW HAS SCE&G VERIFIED THE INFORMATION CONTAINED IN 16 THESE SCHEDULES?

My staff and I carefully reviewed and verified the information to determine the accuracy of the calculations. In addition, the information has been prepared and reviewed by SCE&G personnel who are known to me to be experts in the pertinent subject matters. Based on these reviews, I am confident that the information set forth in the Combined Application reasonably reflects

1		the best estimate of the expected costs to construct and place into service Units
2		2 and 3.
3		
4	Q.	DOES THE SCHEDULE OF ANTICIPATED COMPONENTS OF
5		CAPITAL COSTS IN EXHIBIT F (PUBLIC) REPRESENT ONLY
6		SCE&G'S SHARE OF THE COSTS OF THE PROJECT?
7	A.	Yes. Although the total cost of this project (less transmission project
8		costs and Allowance for Funds Used During Construction ("AFUDC")) is
9		being funded 55% by SCE&G and 45% by Santee-Cooper, Chart A of Exhibit
10		F (Public), Page 3 of 3, represents only the costs for which SCE&G will be
11		responsible.
12		
13	Q.	OVER WHAT PERIOD DOES SCE&G PROJECT THAT THESE
14		COSTS WILL BE INCURRED?
15	A.	The expected project cash flow based on the capital costs begins in the
16		year 2005 and continues through completion of Units 2 and 3.
17		
18	Q.	WHAT IS THE TOTAL AMOUNT OF CAPITAL COSTS PROJECTED
19		BY SCE&G?
20	A.	The total projected amount is \$6,313,376,000, which is identified in
21		Chart A of <b>Exhibit F</b> ( <b>Public</b> ). Page 3 of 3, as Gross Construction Costs.

#### Q. IS THIS AMOUNT BROKEN OUT BY YEAR?

2 A. Yes. Chart A of **Exhibit F** (**Public**), Page 3 of 3, reflects the cash flow required to fund the project capital costs for each year from 2007 until 2018.

The amount reflected for the year 2007 includes all project costs from the

5 commencement of the project through the end of 2007.

A.

### Q. WHAT ARE THE ANTICIPATED COMPONENTS OF CAPITAL COSTS THAT SCE&G EXPECTS TO INCUR?

Consistent with the definition of the term "capital costs" or "plant capital costs" in the Base Load Review Act, the separate components of the capital costs set forth in Chart A of Exhibit F (Public), Page 3 of 3, include the plant costs, which are the costs of constructing Units 2 and 3; the transmission project costs, which are the costs necessary to connect Units 2 and 3 to SCE&G's transmission grid; and AFUDC Costs, which is an amount representing the capitalized interest incurred during the construction of the plant and transmission facilities, calculated in accordance with regulatory accounting principles and provisions of the Base Load Review Act. Chart A of Exhibit F (Public), Page 3 of 3, also reflects the anticipated schedule for incurring these capital costs by breaking out the cash flow for each of these components of capital costs for each year from the commencement of the project through the year 2018.

1	Q.	DID SCE&G CALCULATE THE PLANT COSTS, TRANSMISSION
2		PROJECT COSTS, AND AFUDC COSTS SET FORTH IN EXHIBIT F
3		(PUBLIC) IN ACCORDANCE WITH GENERALLY ACCEPTED
4		REGULATORY AND FINANCIAL ACCOUNTING PRINCIPLES?
5	A.	Yes. SCE&G calculated the plant costs, transmission project costs, and
6		AFUDC costs set forth in Chart A of Exhibit F (Public), Page 3 of 3, in
7		accordance with generally accepted regulatory and financial accounting
8		principles.
9		
10	Q.	LET'S TALK ABOUT EACH OF THESE COMPONENTS OF
11		CAPITAL COSTS. WHAT IS THE TOTAL PROJECTED AMOUNT OF
12		CASH FLOW SOLELY FOR CONSTRUCTING UNITS 2 AND 3,
13		EXCLUDING TRANSMISSION PROJECT COSTS AND AFUDC?
14	A.	The total projected amount of cash flow solely for constructing Units 2
15		and 3, excluding transmission project costs and AFUDC costs, is
16		\$5,411,067,000.
17		
18	Q.	DOES THE AMOUNT FOR CONSTRUCTING UNITS 2 AND 3,
19		EXCLUDING TRANSMISSION PROJECT COSTS AND AFUDC,
20		INCLUDE AN ADJUSTMENT FOR INFLATION?
21	A.	Yes. Although the line item amount entitled Total Unescalated Plant
22		Costs is not shown on Chart A of <b>Exhibit F</b> ( <b>Public</b> ), Page 3 of 3, it is shown

on Chart A of **Exhibit F** (**Confidential**), Page 3 of 3, and has been provided in 2007 dollars. There also is a line item for Contingencies, which is provided in Chart A of **Exhibit F** (**Confidential**), Page 3 of 3, in 2007 dollars. To reflect the estimated future impact that inflation will have on these amounts, however, SCE&G has calculated inflation or escalation adjustments for these costs that are set forth on Chart A of Exhibit F (Confidential), Page 3 of 3, in two line items, one identified as "Project Cost Escalation" and the other identified as "Contingency Escalation." The categories reflect amounts that are expected to be paid over and above the unescalated project cost and contingency amounts as stated in 2007 dollars due to the impact of inflation. Again, the amounts projected for these elements of the project costs are not reflected in the public version of Chart A, although the total expected cost to construct Units 2 and 3 of \$5,411,067,000—including amounts determined for contingencies and escalation but excluding transmission project costs and AFUDC—is reflected on the public version of Chart A. The projected amounts for these elements of project cost are, however, included in the confidential version of Chart A, attached to Exhibit F (Confidential), Page 3 of 3.

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#### Q. WHY IS AN AMOUNT INCLUDED FOR CONTINGENCIES?

Contingencies are included to allow for items, conditions, or events the timing and nature of which is uncertain but which may occur and, thus, may result in additional costs to complete the project.

1	Q.	DOES EXHIBIT F (CONFIDENTIAL) SPECIFICALLY IDENTIFY
2		THE TOTAL PROJECTED AMOUNT OF UNESCALATED PROJECT
3		COSTS, WHICH EXCLUDES AMOUNTS FOR ESCALATION AND
4		CONTINGENCIES?

5 A. Yes. The total projected amount of Unescalated Project Costs is 6 specifically set forth in **Exhibit F** (**Confidential**), Chart A, Page 3 of 3. The 7 amount also is broken out by year in that same Exhibit.

Q.

WHAT ARE THE CATEGORIES IDENTIFIED ON CHART A OF
EXHIBIT F (PUBLIC) WITH REGARD TO THE PLANT COSTS
INCURRED IN CONSTRUCTING UNITS 2 AND 3 AND EXCLUDING
TRANSMISSION PROJECT COSTS AND AFUDC?

A. As set forth on the left side of Chart A of Exhibit F (Public), Page 3 of 3, and explained more fully in Exhibit I (Public), Pages 1 of 8 through 3 of 8, these categories are Fixed with No Adjustment; Firm with Fixed Adjustment A; Firm with Fixed Adjustment B; Firm with Indexed Escalation; Actual Craft Wages; Non-Labor Costs; Time & Materials; and Owners Costs Target Estimates. I would like to point out that, as filed, the first line item on Chart A of Exhibit F (Public), Page 3 of 3, and of Exhibit F (Confidential), Page 3 of 3, is identified as Fixed with Adjustment and, thus, erroneously omits the word "No" from the description. This line item actually refers to the Fixed with No Adjustment category.

## Q. ARE THE TOTAL AMOUNTS REFLECTED FOR EACH OF THESE CATEGORIES IN EXHIBIT F (CONFIDENTIAL)?

3 A. Yes. The total projected amounts for each of these categories is 4 specifically set forth and broken out by year in **Exhibit F** (**Confidential**), Chart 5 A, Page 3 of 3.

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### Q. ALTHOUGH NOT IN THE PUBLIC VERSION, ARE THE TOTAL PROJECTED AMOUNTS FOR ESCALATION AND CONTINGENCY

#### **SET FORTH IN EXHIBIT F (CONFIDENTIAL)?**

10 A. Yes. The total projected amounts for project cost escalation; 11 contingency; and contingency escalation that are identified only by category in 12 Chart A of **Exhibit F (Public)**, Page 3 of 3, are set forth in and are broken out 13 by year in Chart A of **Exhibit F (Confidential)**, Page 3 of 3.

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### 15 Q. HOW ARE THE ESCALATION AND CONTINGENCY AMOUNTS 16 CALCULATED?

As shown on Chart A of **Exhibit F** (**Public**), there are eight cost categories within the plant cost component. These categories are defined by risk profiles for each category. Seven of these categories are defined in the EPC Contract, four of which involve costs that are fixed or fixed with escalation and three of which are variable based on the actual cost incurred. The eighth category pertains to Owners' Costs, or costs that SCE&G will incur

independent of the EPC Contract. The definitions for each of these categories are determined either by the terms of the contract or by sound engineering and planning assumptions provided by Company Witness Stephen A. Byrne and his staff. Project cash flow is assigned to each risk profile based on common risk characteristics and escalations and contingencies are applied to generate future cash flow needs for use in regulatory and planning schedules. The contingency amount also is escalated to account for inflation, as reflected in a separate line item in Chart A of **Exhibit F** (**Public**), Page 3 of 3.

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#### Q. IS THERE A CHART SUMMARIZING THE ESCALATION INDICES AND ASSUMPTIONS AND THE **ASSIGNED** CONTINGENCY FACTOR PERTAINING TO EACH OF THESE CATEGORIES? 12

Yes. Chart A to Exhibit I (Public), Page 4 of 8, provides this information. The confidential version of Exhibit I to the Combined Application, attached as **Exhibit I** (**Confidential**), Page 4 of 8, contains more detail than does the public version, but both generally explain the escalation and contingency assumptions.

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#### WHAT ARE THE DIFFERENCES BETWEEN EXHIBIT I (PUBLIC) 19 Q. AND EXHIBIT I (CONFIDENTIAL)? 20

differences between Exhibit I (Public) 21 A. and Exhibit I 22 (Confidential) are explained more fully in the public version of Exhibit I 1 (Public), Page 3 of 8. To summarize the differences, Exhibit I (Public) does
2 not contain the following information that is set forth in Exhibit I
3 (Confidential):

A.

- the percentage of the costs under the EPC Contract that fall
  within the Fixed or Firm Pricing ("Fixed/Firm Pricing") category
  and the additional percentage of cost that Westinghouse/Stone &
  Webster has agreed to offer for conversion to Fixed/Firm Pricing;
- the specific inflation factors that the EPC Contract has established for the two Firm with Fixed Adjustment Categories;
   and
- the specific items of equipment or cost included in the four
   Fixed/Firm Pricing categories of cost.

## Q. DOES EXHBIT I (CONFIDENTIAL) IDENTIFY THE ACTUAL PERCENTAGE OF COSTS UNDER THE EPC CONTRACT THAT FALL WITHIN THE FIXED/FIRM PRICING CATEGORY?

Yes. Exhibit I (Confidential), Page 1 of 8, identifies the percentage of the total EPC Contract cost that is subject to Fixed/Firm Pricing based on the current projections of total contract costs. Fixed/Firm Pricing is pricing that is subject to no inflation factor, a fixed inflation factor, or an inflation factor tied to a public inflation index. Exhibit I (Confidential), Page 1 of 8, also identifies the additional percentage of the current cost of the EPC Contract that

may be converted to Fixed/Firm Pricing in the future upon acceptance by

SCE&G of offers of Fixed/Firm Pricing that Westinghouse/Stone & Webster

has agreed to provide for designated aspects of the work.

A.

# Q. PLEASE BRIEFLY EXPLAIN HOW THE ESCALATION AND CONTINGENCY AMOUNTS ARE CALCULATED FOR EACH OF THE CATEGORIES OF COSTS FOR CONSTRUCTING UNITS 2 AND 3.

I will start with plant costs classified as Fixed with No Adjustment, which are costs that are fixed in the EPC Contract and, thus, are not adjusted for inflation. These costs represent various plant components as specified in the EPC Contract. Because these amounts are fixed in the EPC Contract, they are considered to have a relatively low contingency risk that is principally related to change orders. The contingency has been calculated at 5% of the cost for this category.

A.

### Q. WHAT ABOUT COSTS CLASSIFIED AS FIRM WITH FIXED ADJUSTMENT A AND FIRM WITH FIXED ADJUSTMENT B?

Firm with Fixed Adjustment A represents other plant components specified in the EPC Contract. Firm with Fixed Adjustment B represents specific Westinghouse charges. These costs are escalated based on the escalation percentage specified in the EPC Contract. The difference between

Adjustment B requires in addition to the escalation percentage an increase designated as a nuclear industry administration adjustment to compensate Westinghouse for undertaking the project. The actual escalation percentages assigned to each of these risk categories are set forth in **Exhibit I** (Confidential), Page 2 of 4. These costs also are considered to have a relatively low contingency risk that principally is related to change orders because the costs and the escalation and nuclear industry administration adjustments are specified in the EPC Contract. The contingency has been calculated at 5% of the cost for this category.

A.

### Q. PLEASE EXPLAIN THE COSTS CLASSIFIED AS FIRM WITH INDEXED ESCALATION.

These costs represent all equipment not included in the other categories and other costs. These costs are escalated using the Handy-Whitman All Steam Generation Plant Index, South Atlantic Region. These costs also are specified in the EPC contract and, thus, are considered to have a relatively low contingency risk of 5% of the cost for this category.

Q. WHAT SPECIFIC ITEMS OF EQUIPMENT OR COST ARE
INCLUDED IN THE CATEGORIES OF FIXED WITH NO
ADJUSTMENT; FIRM WITH FIXED ADJUSTMENT A; FIRM WITH

### FIXED ADJUSTMENT B; AND FIRM WITH INDEXED ESCALATION?

A. The specific items of equipment or cost comprising the categories of Fixed with No Adjustment; Firm with Fixed Adjustment A; Firm with Fixed Adjustment B; and Firm with Indexed Escalation are identified in **Exhibit I** (Confidential), Chart A, Page 4 of 8, under the heading "Cost Make-up."

A.

#### O. WHAT IS THE HANDY-WHITMAN INDEX?

The Handy-Whitman index reflects the level of costs for different types of utility construction. This index is well-recognized and commonly used in the utility industry to estimate the cost of constructing facilities. SCE&G has used this index for decades and has determined that the information is reliable and useful for estimating the cost of construction of utility facilities. Depending upon the category of costs, SCE&G is using the Handy-Whitman All Steam Generation Plant Index, the All Steam & Nuclear Generation Plant Index, and the All Transmission Plant Index to determine the escalation amount. The index also is determined by region, and SCE&G is using the South Atlantic Region indices for purposes of calculating the escalation adjustment in this proceeding. In my opinion, these are the appropriate indices to use for estimating future escalations in prices for this project.

## Q. HOW DID SCE&G APPLY INFLATION DATA IN CALCULATING THE ESCALATION AMOUNTS SET FORTH IN THE SCHEDULE OF CAPITAL COSTS?

For the 12-month period following the date the Combined Application was filed, SCE&G used inflation data from the most recent 12-month period preceding the date of filing for which data were available. For periods more than 12 months following the date the Combined Application was filed, SCE&G used the most current five-year average of the applicable inflation index for which data were available. Information from the applicable Handy-Whitman indices since 1997 is attached as **Exhibit I** (**Public**), Chart B, Pages 5 of 8 through 7 of 8. I believe this is an appropriate methodology to use for estimating escalation in prices in future periods.

A.

A.

## Q. PLEASE EXPLAIN THE ESCALATION AND CONTINGENCY CALCULATION FOR COSTS IDENTIFIED AS ACTUAL CRAFT WAGES.

These costs represent all site craft labor and are escalated for planning purposes using the Handy-Whitman All Steam & Nuclear Generation Plant Index, South Atlantic Region. The most recent one-year index change is used to escalate costs for 2008 and the most recent five-year average of this index is used to escalate costs for 2009 and beyond. Information from this index since 1997 is attached as **Exhibit I (Public)**, Chart B, Page 6 of 8. These costs are

considered to have a higher than average contingency risk, estimated as 20% of 2 the cost of this category.

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#### WHAT ABOUT NON-LABOR TARGET COSTS? Q.

include construction materials, consumables, These costs and furnish-and-erect subcontractors' costs and also are escalated for planning purposes using the Handy-Whitman All Steam & Nuclear Generation Plant Index, South Atlantic Region. The most recent one-year index change is used to escalate costs for 2008 and the most recent five-year average of this index is used to escalate costs for 2009 and beyond. Information from this index since 1997 is attached as **Exhibit I (Public)**, Chart B, Page 6 of 8. These costs are estimated to have a moderately high contingency risk, estimated as 15% of the cost of this category.

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#### Q. WHAT ARE THE COSTS SHOWN FOR THE TIME AND MATERIALS **CATEGORY?**

These costs represent plant startup costs and other permitting and licensing support costs. As is the case with the previous two categories, these costs are escalated for planning purposes using the Handy-Whitman All Steam & Nuclear Generation Plant Index, South Atlantic Region. The most recent one-year index change is used to escalate costs for 2008 and the most recent five-year average of this index is used to escalate costs for 2009 and beyond.

Information from this index since 1997 is attached as **Exhibit I** (**Public**), Chart

B, Page 6 of 8. These costs are estimated to have a moderately high

contingency risk, estimated as 15% of the cost of this category.

Α.

#### 5 Q. PLEASE EXPLAIN THE OWNERS' COSTS CATEGORY, WHICH IS 6 THE FINAL CATEGORY OF PLANT COSTS.

These costs include all equipment, labor, materials, insurance, overhead, and similar costs not covered by the EPC Contract. These costs are escalated for planning purposes using the Gross Domestic Product Chained Price Index, which is a commonly-used general escalation index published by the U.S. Government. In my opinion, this is an appropriate index to use for these cost escalations. The most recent one-year factor in this index is used to escalate costs for 2008 and the most recent five-year average of this index is used to escalate costs for 2009 and beyond. Information from this index since 1998 is attached as **Exhibit I** (**Public**), Chart B, page 8 of 8. These costs are estimated to have a moderately high contingency risk, estimated as 15% of the cost of this category.

Q. DO THESE CATEGORIES REFLECT ALL OF THE PLANT COST

CATEGORIES IDENTIFIED BY SCE&G, EXCLUDING

TRANSMISSION PROJECT COSTS AND AFUDC, AS SET FORTH ON

CHART A OF EXHIBIT F (PUBLIC)?

1	A.	Yes.
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3	Q.	WHAT IS THE TOTAL ESTIMATED COST FOR TRANSMISSION
4		PROJECTS, WHICH IS THE NEXT COMPONENT OF CAPITAL
5		COSTS REFLECTED ON THE SCHEDULE OF ANTICIPATED
6		COMPONENTS OF CAPITAL COSTS?
7	A.	The total is \$638,020,000, which is broken out by year on Exhibit F
8		(Public), Chart A, Page 3 of 3. This total consists of the costs to construct the
9		transmission connections for Units 2 and 3 as stated in 2007 dollars, plus
10		additional amounts to account for contingencies and escalation.
11		
12	Q.	HOW IS THE CONTINGENCY AMOUNT FOR TRANSMISSION
13		COSTS DETERMINED?
14	A.	The contingency risk for this cash flow amount is expected to be
15		moderately high, so the contingency is estimated to be 15% of the cost of this
16		category.
17		
18	Q.	AND HOW IS THE ESCALATION AMOUNT FOR TRANSMISSION
19		COSTS DETERMINED?
20	A.	The escalation cost is calculated for planning purposes using the Handy-
21		Whitman Transmission Plant Index, South Atlantic Region. The most recent
22		one-year index change is used to escalate costs for 2008 and the most recent

1	five-year average of this index is used to escalate costs for 2009 and beyond.
2	Information from this index since 1997 is attached as Exhibit I (Public), Chart
3	B, Page 7 of 8.

5 Q. AND DO THE **TOTALS FROM** THE **TWO** COMPONENTS 6 IDENTIFIED AS PLANT COST AND TRANSMISSION PROJECTS WHEN ADDED TOGETHER EQUAL THE TOTAL PROJECT CASH 7 8 FLOW OF \$6,049,087,000 SHOWN ON CHART A OF EXHIBIT F 9 (PUBLIC)?

Yes. There also is a line item showing how the total project cash flow will be incurred in each year beginning with the commencement of the project and continuing through 2018.

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#### Q. PLEASE EXPLAIN THE FINAL COMPONENT OF CAPITAL COSTS, THE AFUDC.

As previously stated, this amount reflects the Allowance for Funds Used During Construction of a plant as calculated using regulatory accounting principles. The amount shown on Chart A of **Exhibit F** (**Public**), Page 3 of 3, was calculated using SCE&G's current AFUDC rate. This rate was calculated based on the methodology established by the Federal Energy Regulatory Commission and that is required pursuant to the Uniform System of Accounts as adopted under regulations issued by the Commission. This rate varies each

1		year depending upon changes in market interest rates, SCE&G's embedded
2		cost of capital, capitalization ratios, CWIP, and SCE&G's short-term
3		outstanding debt.
4		
5	Q.	WHAT IS THE TOTAL AMOUNT SHOWN ON CHART A OF
6		EXHIBIT F (PUBLIC) FOR AFUDC?
7	A.	The total is \$264,289,000, which is broken out by year on Exhibit F
8		(Public), Chart A, Page 3 of 3, over the period beginning with the
9		commencement of the project through substantial completion of the EPC
10		Contract.
11		
12	Q.	AND DOES THE SUM OF THE AMOUNTS SHOWN FOR PLANT
13		COST CATEGORIES, TRANSMISSION PROJECTS, AND AFUDC
14		EQUAL THE TOTAL GROSS CONSTRUCTION AMOUNT OF
15		\$6,313,376,000?
16	A.	Yes.
17		
18	Q.	DOES CHART A OF EXHIBIT F (PUBLIC) CONTAIN
19		INFORMATION REGARDING CWIP?
20	A.	Yes, the last line item on Chart A of Exhibit F (Public), Page 3 of 3,
21		provides the projected total cumulative CWIP for each year from the year
22		2007, which includes all project costs incurred as of that year, through 2018,

	with the cumulative CWIP for the year 2018 equaling the total Gross
	Construction Cost.
Q.	COULD THE INFORMATION SET FORTH IN EXHIBIT F (PUBLIC)
	AND EXHIBIT F (CONFIDENTIAL) CHANGE?
A.	Yes, this information most likely will change depending upon the actual
	amounts expended during construction of the plant, the actual progress made
	during each year, and changes in the actual indices applied to the total project
	cost.
Q.	DOES THE COMBINED APPLICATION INCLUDE INFORMATION
	RELATED TO SCE&G'S REVENUE REQUIREMENTS FOR EACH
	YEAR DURING THE CONSTRUCTION PERIOD RELATED TO THE
	EXPECTED CAPITAL COSTS?
A.	Yes. This information is attached as Exhibit M to the Combined
	Application, and as <b>Exhibit M</b> to my testimony.
Q.	HOW ARE THE REVENUE REQUIREMENTS DETERMINED FOR
	EACH YEAR?
A.	The revenue requirements are determined by taking the projected
	outstanding CWIP amount for each year as of June 30 and multiplying that by
	SCE&G's weighted average cost of capital. Exhibit M, Chart A, Page 3 of 4,
	A. Q. Q.

breaks down the revenue requirements by nuclear construction and transmission projects, and also shows the projected incremental revenue requirements for each year based on the CWIP for that year. In addition, Chart A of **Exhibit M**, Page 3 of 4, reflects the cumulative revenue requirements for each year.

A.

### Q. HOW IS THE WEIGHTED AVERAGE COST OF CAPITAL PERCENTAGE DETERMINED?

As set forth in **Exhibit L**, the weighted average cost of capital percentage is determined by calculating the ratio of long-term debt, preferred stock, and common equity outstanding for SCE&G as of December 31, 2007. In addition, the amount reflected for long-term debt on **Exhibit L** includes actual and planned debt issuances that were scheduled for 2008 as of the date the Combined Application was filed. We then determined—as reflected in the column entitled "Ratio"—the ratio that each component bears to SCE&G's regulated utility's capital structure. The ratio then was multiplied by the embedded costs applicable to each component to determine the weighted average cost of capital, which totaled 8.76%.

#### Q. HOW WERE THE EMBEDDED COSTS IN EXHIBIT L DETERMINED?

1	A.	For long-term debt and preferred stock, the embedded costs represent
2		the calculated costs to SCE&G for issuing the debt or preferred stock. As
3		Company Witness Jimmy E. Addison has testified, for common equity, the
4		embedded cost of 11% incorporates the rate of return on equity, or ROE, that
5		the Commission approved in December 2007. SCE&G used this amount
6		because the Base Load Review Act authorizes use of the ROE approved in our
7		most recent general rate proceeding if the order in that proceeding was issued
8		no more than five years before the Combined Application was filed.

## 10 Q. DID SCE&G THEN USE THE WEIGHTED AVERAGE COST OF 11 CAPITAL OF 8.76% TO DETERMINE ITS REVENUE 12 REQUIREMENTS?

13 A. No. Because the weighted average cost of capital of 8.76% is net of tax, 14 it was necessary to adjust that result for the effect of income taxes.

15

## Q. WHAT IS THE WEIGHTED AVERAGE COST OF CAPITAL WHEN ADJUSTED FOR THE EFFECT OF INCOME TAXES?

As set forth in **Exhibit L**, the weighted average cost of capital when adjusted for the impact of income taxes is 12.51%.

20

### Q. HAVE THERE BEEN ANY CHANGES FROM THE AMOUNTS PROJECTED FOR THE 2008 DEBT ISSUANCES?

A.	Yes. The June 2008 issuance of \$100,000,000 in First Mortgage Bonds
	projected in Exhibit L occurred as scheduled, but the amount issued actually
	was \$110,000,000. Also, although it will not impact the cost of capital
	percentage, the projected August 2008 debt issuance of \$40,000,000 in
	Pollution Control Bonds set forth in Exhibit L probably will not occur until
	October 2008. The resulting changes will be updated through the testimony of
	Office of Regulatory Staff witnesses based on the results of their audit.

Q.

A.

UNDER THE ANALYSIS OF THE YEAR-BY-YEAR REVENUE
REQUIREMENTS AND PROJECTED LEVEL OF INVESTMENT, ON
WHAT DATE DOES SCE&G PROPOSE TO MAKE EFFECTIVE THE
RATES REFLECTING THE INCREASED REVENUE
REQUIREMENTS?

As Company Witness Kenneth R. Jackson will explain more fully in his testimony regarding the revenue and rate determinations, SCE&G proposes in **Exhibit M** that revised rates initially be made effective 30 days after the issuance of the Commission order in this proceeding based on CWIP as of June 30, 2008. The Company has the right to seek annual adjustments thereafter.

Q. PLEASE BRIEFLY EXPLAIN THE ANALYSIS SET FORTH IN
CHART A OF EXHIBIT M FOR THE YEAR-BY-YEAR REVENUE
REQUIREMENTS AND PROJECTED LEVEL OF INVESTMENT.

A.	Using the year 2010 as an example in Chart A of Exhibit M, Page 3 of
	4, the total CWIP for both Nuclear Construction and Transmission Projects
	incurred between June 30, 2009 and June 30, 2010 is estimated to be
	\$524,430,000. The incremental revenue required to fund this amount is
	estimated to be \$65,590,000, which is the amount of CWIP in Rates for 2010
	multiplied by 12.51%, which is the weighted average cost of capital adjusted
	for the impact of income taxes. The cumulative incremental revenue required
	when rates become effective on October 30, 2010 is \$122,698,000, which is the
	incremental revenue requirement of \$65,590,000 for 2010 plus the cumulative
	incremental revenue requirement as of 2009, or \$57,108,000. This process is
	completed for each year. This information is only an example and the
	calculations for each future period will be based upon the actual information
	determined at that time.

## 15 Q. DO THE AMOUNTS SHOWN FOR CWIP ON CHART A OF EXHIBIT 16 M AGREE WITH THE AMOUNTS SHOWN FOR CWIP ON CHART A 17 OF EXHIBIT F (PUBLIC)?

18 A. No.

#### 20 Q. PLEASE EXPLAIN WHY THEY DO NOT AGREE.

21 A. Chart A of **Exhibit M**, Page 3 of 4, reflects CWIP as of June 30 of each 22 year. In contrast, CWIP as shown on Chart A of **Exhibit F** (**Public**), Page 3 of

1	3, is determined as of December 31 of each year. Thus, the CWIP amounts do
2	not agree because they are based on snapshots taken at different times during
3	the year. I would also point out that the total CWIP in rates of \$6,313,376,000
4	shown on Chart A of Exhibit M, Page 3 of 4, does agree to the total Gross
5	Construction cost shown on Chart A of <b>Exhibit F</b> ( <b>Public</b> ), Page 3 of 3.

## Q. WHY DO THE TOTAL AMOUNTS SHOWN FOR NUCLEAR CONSTRUCTION AND TRANSMISSION PROJECTS DIFFER BETWEEN THESE TWO EXHIBITS?

10 A. Because the amounts reflected on Chart A of **Exhibit M**, Page 3 of 4,
11 also include that component's share of AFUDC, whereas AFUDC is expressed
12 in aggregate as a separate line item on Chart A of **Exhibit F** (**Public**), Page 3
13 of 3.

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# 15 Q. COULD THE INFORMATION SET FORTH IN CHART A OF 16 EXHIBIT M REGARDING THE YEAR-BY-YEAR REVENUE 17 REQUIREMENTS AND PROJECTED LEVEL OF INVESTMENT 18 CHANGE IN THE FUTURE?

Yes. The analysis in Chart A of **Exhibit M**, Page 3 of 4, is based upon the best information available at the time of filing the Combined Application. These amounts will change based on the actual amount of CWIP during the years at issue, the filing date of future rate proceedings, and other factors.

#### 1 Q. WHAT IS THE PURPOSE OF CHART B TO EXHIBIT M?

A. The purpose of Chart B of **Exhibit M**, Page 4 of 4, is to demonstrate the projected impact on rates of the increased revenue requirements set forth in Chart A of **Exhibit M**, Page 3 of 4. It is important to remember that Chart B of **Exhibit M**, Page 4 of 4, reflects only the estimated impact on rates attributable solely to construction of Units 2 and 3.

A.

## Q. COULD THE PROJECTIONS IN CHART B OF EXHIBIT M FOR THE YEAR-BY-YEAR REVENUE REQUIREMENTS AND PROJECTED LEVEL OF INVESTMENT CHANGE OVER FUTURE PERIODS?

Yes. Although Chart B of **Exhibit M**, Page 4 of 4, is based upon the best available information, the amounts could change based upon future rate changes that may occur independent of constructing Units 2 and 3. Also, actual rate impacts from the Units will vary based on the actual rates of growth in customers and demand during the period, changes in SCE&G's cost of capital, changes in the amount and timing of investment in the Units, changes in In-Service Expenses, and other factors impacting rates.

## Q. ARE IN-SERVICE EXPENSES INCORPORATED INTO CHART B OF EXHIBIT M AS PART OF THE CALCULATION OF REVENUE REQUIREMENTS?

A. Yes, this information is included in the amounts reflected in Chart B of **Exhibit M**, Page 4 of 4. Specifically, the Incremental Revenue Requirement projected for 2016 includes the Projected In-Service Expenses for Unit 2 for the 12 months following its anticipated in-service date of April 1, 2016, and the projected Incremental Revenue Requirement for 2019 includes the Projected In-Service Expenses for Unit 3 for the 12 months following its anticipated inservice date of January 1, 2019.

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#### Q. WHAT **ARE** THE **PROJECTED IN-SERVICE EXPENSES** ASSOCIATED WITH EACH OF THE V.C. SUMMER UNITS FOR THE 12 MONTHS FOLLOWING COMMENCEMENT OF COMMERCIAL **OPERATION OF EACH OF THE UNITS?** 12

This information is set forth in **Exhibit O**. The In-Service Expenses for the 12 months after each unit is placed in service are estimated to be \$223,336,000 for Unit 2 and \$216,342,000 for Unit 3. I believe these amounts are a reasonable estimate of the expenses that will result from commencing commercial operation of Units 2 and 3.

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#### WHAT ARE THE COMPONENTS OF THE CALCULATED IN-19 Q. 20 **SERVICE EXPENSE AMOUNTS?**

As reflected in **Exhibit O**, the estimates for In-Service Expenses include 21 A. 22 Fixed Operation and Maintenance Expenses that will not vary with the operation of the plant; Variable Operation and Maintenance Expenses that will vary with the operation of the plant; Decommissioning Expenses, which is the amount needed to fund a trust that SCE&G plans to use to provide reasonable assurance of the availability of its share of funds to decommission the facility; Fuel Costs, which is the cost of nuclear fuel for the 12-month period; Depreciation, which is calculated for the nuclear units using a straight-line basis assuming a 60-year life for each units and using approved rates for transmission facilities; Taxes Other than Income, which includes property taxes, gross receipts taxes, and taxes to support the Commission; and the Return on Materials, Supplies, and Working Capital, which were estimated by applying SCE&G's weighted average cost of capital to projected balances for fuel, inventories, materials and supplies, and working capital associated with each of the new nuclear units.

- 15 Q. DID SCE&G CALCULATE THE IN-SERVICE EXPENSES IN

  16 ACCORDANCE WITH GENERALLY ACCEPTED PRINCIPLES OF

  17 REGULATORY AND FINANCIAL ACCOUNTING?
- 18 A. Yes.

20 Q. DOES SCE&G ANTICIPATE ANY ATYPICAL OR ABNORMAL
21 EXPENSE LEVELS DURING THE IN-SERVICE PERIODS FOR

#### 1 UNITS 2 AND 3 THAT MUST BE NORMALIZED PURSUANT TO THE 2 BASE LOAD REVIEW ACT?

A. No. The anticipated In-Service Expenses identified in **Exhibit O** reflect typical and normal expense levels that reasonably would be expected to be incurred during the 12-month period after placing a new nuclear power reactor into service.

A.

### Q. WHAT IS THE NUCLEAR FUEL COST ADJUSTMENT SHOWN ON CHART B OF EXHIBIT M?

This amount, which is reflected on Chart B of **Exhibit M**, Page 4 of 4, reflects the cost savings that SCE&G expects to derive from replacing more expensive forms of energy such as coal or natural gas with electricity from nuclear energy.

A.

## Q. WHAT IS REPRESENTED BY THE LINE ITEM ENTITLED PRODUCTION TAX CREDITS APPLIED TO FUEL COSTS AS SHOWN ON CHART B OF EXHIBIT M?

This amount, which is represented on Chart B of **Exhibit M**, Page 4 of 4, reflects the benefit that SCE&G expects to derive from the advanced nuclear power facility production credits ("Production Tax Credits") to which it expects that it will be entitled under the Energy Policy Act of 2005 ("Energy Policy Act"), which added Section 45J to the Internal Revenue Code. These

provisions make available a total of \$125,000,000 annually in tax credits for up to eight years for a nuclear power facility for which a utility has filed an application with the United States Nuclear Regulatory Commission for a Construction and Operating License ("COL"), on or before December 31, 2008; started construction of the facility before January 1, 2014; filed an application for certification of the facility with the United States Department of Energy on or before January 31, 2014; received certification of the facility from DOE; and placed the facility into service before January 1, 2021. In addition, the utility must file an application to receive an allocation of a share of the Production Tax Credits with the Internal Revenue Service ("IRS") on or before January 31, 2014.

Q.

Α.

## DOES SCE&G EXPECT AT THIS TIME THAT IT WILL MEET THE REQUIREMENTS FOR RECEIVING AN ALLOCATION OF THESE PRODUCTION TAX CREDITS?

Yes. SCE&G already has filed its application for a COL for Units 2 and 3 and projects that it will begin construction of the nuclear units at the V.C. Summer location by December 2013 and that it will place those units into service well before January 1, 2021. SCE&G also expects that it will file the required applications with the Department of Energy and the IRS on or before January 31, 2014 and that both of these applications will be approved. SCE&G therefore anticipates that it will be entitled to a share of the Production Tax

Credits authorized by the Energy Policy Act during each of the years 2016 through 2026. Because SCE&G intends at a future date to seek approval from the Commission to pass along these tax credits to customers as an offset or reduction of fuel cost expenses, Chart B to Exhibit M, Page 4 of 4, reflects the benefit to customers of passing along the tax credits based on the assumption that the Commission will approve this request. SCE&G believes it is appropriate to reduce fuel costs to reflect this benefit because the primary benefit to customers from using the nuclear units versus other forms of power generation is the reduction in fuel costs. Furthermore, because of the year-to-year variability of the amount of these credits, the use of the fuel clause seems more appropriate. Thus, SCE&G believes this benefit should be passed along to customers through a reduction of the fuel costs included in the determination of rates.

A.

### Q. HOW DID SCE&G DETERMINE THE AMOUNTS SHOWN ON THE PRODUCTION TAX CREDIT LINE ITEM?

The amount of Production Tax Credits reflected in Chart B of **Exhibit** M, Page 4 of 4, is based upon the appropriate allocation of credits available under the Energy Policy Act for each calendar year. This allocation depends upon the capacity of the nuclear reactor placed in service in relation to the total megawatts of nuclear-fueled capacity that is being placed into service during the year at issue. The total available credit also is limited to 6,000 megawatts

for any of the years 2016 through 2026 at 1.8 cents per kilowatt hour, which equates to a credit of \$18 per megawatt hour of production. If, however, the reactor placed into service has less than 1,000 megawatts of capacity, the credit for that reactor in any year further is limited to an amount equal to the ratio of the reactor's total capacity to 1,000 megawatts multiplied by the maximum available tax credits of \$125,000,000. These calculations must be performed for each year that a reactor is eligible for credits, which is eight years, and will differ from year to year depending upon the megawatt capacity of qualifying reactors that are placed into service during each year or that become ineligible to receive credits in each year due to expiration of the eight-year credit window.

Q.

A.

# DO THE AMOUNTS SHOWN ON CHART B OF EXHIBIT M REGARDING THE EXPECTED TAX CREDIT FOR EACH YEAR EQUAL THE AMOUNT OF TAX CREDIT TO WHICH SCE&G EXPECTED TO BE ENTITLED FOR THAT YEAR?

No. Once the appropriate amount of the Production Tax Credits is determined, that amount is "grossed up" to reflect the appropriate amount of taxable income to be offset by application of the tax credit. In other words, because the Production Tax Credit is a credit against the amount of tax calculated based on an entity's total taxable income, the actual amount of income protected by the credit and, thus, the revenue benefit of the tax credit

1	actually is greater than the credit. Chart B of Exhibit M, Page 4 of 4, reflects
2	these grossed-up amounts.

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#### 4 Q. CAN YOU SUMMARIZE HOW SCE&G HAS CALCULATED THIS 5 INFORMATION WITH RESPECT TO UNITS 2 AND 3?

Yes. This information is reflected on the Schedule of Gross and Net Α. Projected Production Tax Credits attached to my testimony as **Exhibit No.** \_\_\_\_ (EEB-6). As reflected in this Exhibit, SCE&G expects to be entitled to a Production Tax Credit of approximately \$76,813,000 for the year 2016 based on the best available information at the time of the filing of the Combined Application regarding the total new nuclear power plant capacity that will be placed into service during that year by all utilities. This amount is determined based upon the provisions of the Internal Revenue Code and pertinent guidance from the IRS regarding computation of the credit. When grossed up, that amount offsets approximately \$124,393,000 of taxable income as set forth on **Exhibit No.** (EEB-6) and this is the amount reflected in the Production Tax Credits Line Item on Chart B of **Exhibit M**, Page 4 of 4, for the year 2016. This same process is followed each year for Unit 2 for the years 2016 to 2023 and for Unit 3 for the years 2019 to 2026.

20

### Q. WILL THE LEVEL OF BENEFIT DERIVED FROM THE PRODUCTION TAX CREDITS LIKELY CHANGE?

Yes. Assumptions were made based on many factors, including the number and capacity of reactors placed into service by other utilities; the date those reactors will be placed into service; the dates on which Units 2 and 3 will be placed into service; and other factors mentioned in Company Witness Kevin B. Marsh's testimony.

A.

A.

## Q. WHY DOES THE AMOUNT OF THE PRODUCTION TAX CREDIT AND THE CORRESPONDING GROSS INCOME CHANGE FOR THE YEARS 2016 TO 2026?

SCE&G expects that the proportion of the total Production Tax Credit to which it is entitled will decline during the years 2017 through 2018 because other utility companies will be placing nuclear reactors into service and, thus, also will be entitled to a share of the total tax credits available. The total amount of the credit will increase when Unit 3 is placed into service in 2019 and remain steady until the year 2023, then decrease in 2024 because the eight-year window for Unit 2 expires after 2023. The amount of the credit then will increase for the years 2025 and 2026 because Unit 3 will remain eligible for credits through 2026, but the eight-year window will expire during those years for many of the reactors placed into service prior to Unit 3. The corresponding amounts of taxable income that will be offset by the credits also change in accordance with this schedule.

## Q. WHAT IS THE TOTAL BENEFIT THAT SCE&G EXPECTS TO RECEIVE FROM THE ADVANCED NUCLEAR POWER FACILITY PRODUCTION TAX CREDITS?

A. As shown on **Exhibit No.** \_\_\_\_ (**EEB-6**), the total benefit to SCE&G in future dollars is Production Tax Credits of approximately \$331,388,000 for Unit 2 and approximately \$324,648,000 for Unit 3, for a grand total of \$656,036,000 of tax credits. The tax credits attributable to Unit 2 offset approximately \$536,659,000 of taxable income, and those attributable to Unit 3 offset approximately \$525,751,000 of taxable income, for a total income offset of approximately \$1,062,410,000, the benefit of which SCE&G proposes to pass along to customers in the form of offsets to its fuel cost expenses.

A.

### Q. PLEASE SUMMARIZE YOUR TESTIMONY FOR THE COMMISSION.

As reflected in Exhibits F, I, L, M, and O to the Application and based on the EPC Contract, SCE&G projects that it can construct two additional nuclear power reactors at the existing V.C. Summer site and also construct the necessary transmission line infrastructure for approximately \$6.3 billion. The total incremental revenue required of approximately \$1.229 billion through 2019 leads to a projected average annual rate increase of 2.49% through the year 2020. The revenue projections include recovery of the projected in-service expenses of \$223 million (in 2016 dollars) for Unit 2 and \$216 million (in 2019

dollars) for Unit 3 for the 12-month period after each unit is placed in service. Consistent with its proposal to keep the annual rate increases related to the project as low as possible, SCE&G seeks to allocate—and the rate and revenue projections include—expected benefits derived from available federal tax credits to customers in the form of reductions in the fuel costs for each year. SCE&G therefore respectfully requests that the Commission approve the Application because two additional nuclear power reactors at the V.C. Summer site will be used and useful for the safe and reliable production of electricity for SCE&G's customers and for the benefit of the infrastructure of South Carolina.

#### Q. DOES THIS CONCLUDE YOUR PRE-FILED TESTIMONY?

12 A. Yes.